

L Number	Hits	Search Text	DB	Time stamp
1	0	(magnetoresistive adj sensor) and self-planar\$3	USPAT; JPO; DERWENT	2003/08/15 11:01
2	0	(magnetoresistive adj sensor) and (self adj planar\$3)	USPAT; JPO; DERWENT	2003/08/15 11:01
3	0	(magnetoresistive) and (self adj planar\$3)	USPAT; JPO; DERWENT	2003/08/15 11:01
4	14	self-planar\$3	USPAT; JPO; DERWENT	2003/08/15 11:02
5	7	"916064"	USPAT; JPO; DERWENT	2003/08/15 11:03
6	13	"221493"	USPAT; JPO; DERWENT	2003/08/15 11:46
7	0	(giant adj magnetoresistive) and (stop adj layer) and (buffer adj layer)	USPAT; JPO; DERWENT	2003/08/15 11:49
8	85	(giant adj magnetoresistive) and (buffer adj layer)	USPAT; JPO; DERWENT	2003/08/15 11:58
9	0	(giant adj magnetoresistive) same (buffer adj layer) same copper	USPAT; JPO; DERWENT	2003/08/15 11:51
10	6	(giant adj magnetoresistive) same (buffer adj layer)	USPAT; JPO; DERWENT	2003/08/15 11:50
11	3	((giant adj magnetoresistive) same (buffer adj layer)) and @ad<20000727	USPAT; JPO; DERWENT	2003/08/15 11:51
12	65	((giant adj magnetoresistive) and (buffer adj layer)) and @ad<20000727	USPAT; JPO; DERWENT	2003/08/15 11:51
13	15	((giant adj magnetoresistive) and (buffer adj layer)) and @ad<20000727) and ((buffer adj layer) same copper)	USPAT; JPO; DERWENT	2003/08/15 11:57
14	154	360/121,122,123,126.ccls. and GMR	USPAT; JPO; DERWENT	2003/08/15 11:57
15	6	(360/121,122,123,126.ccls. and GMR) and (buffer adj layer)	USPAT; JPO; DERWENT	2003/08/15 12:01
16	286	GMR and buffer	USPAT; JPO; DERWENT	2003/08/15 12:02
18	8	(GMR and buffer) and (GMR adj stack)	USPAT; JPO; DERWENT	2003/08/15 12:10
19	0	09/916064	USPAT; JPO; DERWENT	2003/08/15 12:09
20	0	09/916,064	USPAT; JPO; DERWENT	2003/08/15 12:09
22	1025	29/603.01,603.03,603.07,603.12,603.13,603.13,603.14,603.15,603.16,603.18.ccls. and (GMR adj stack)	USPAT; JPO; DERWENT	2003/08/15 12:10
23	1	29/603.01,603.03,603.07,603.12,603.13,603.13,603.14,603.15,603.16,603.18.ccls. and (GMR adj stack)	USPAT; JPO; DERWENT	2003/08/15 12:11
24	4	29/603.01,603.03,603.07,603.12,603.13,603.13,603.14,603.15,603.16,603.18.ccls. and (gmr or (GMR adj stack)) and buffer	USPAT; JPO; DERWENT	2003/08/15 12:26

27	15	("5159513"   "5206590"   "5251170"   "5420819"   "5422571"   "5496759"   "5583725"   "5701223"   "5756366"   "5841692"   "6097578"   "6153320"   "6171693"   "6353318"   "6362941").PN.	USPAT	2003/08/15 12:11
28	32	5841692.URPN.	USPAT	2003/08/15 12:17
31	12	("5640343"   "5650958"   "5729410"   "5764567"   "5793697"   "5801984"   "5835314"   "5841692"   "5862022"   "5898547"   "5898548"   "5901018").PN.	USPAT	2003/08/15 12:21
32	4	("3623038"   "5055158"   "5390061"   "5432734").PN.	USPAT	2003/08/15 12:23
35	286	(gmr or (GMR adj stack)) and buffer	USPAT; JPO; DERWENT	2003/08/15 12:27
36	15	((gmr or (GMR adj stack)) and buffer) and (planar\$7 same (insulat\$3 or dielectric))	USPAT; JPO; DERWENT	2003/08/15 12:32
37	22	("4947541"   "5283942"   "5285340"   "5406434"   "5473491"   "5479696"   "5590008"   "5695656"   "5802700"   "5872693"   "5874010"   "5926348"   "5966800"   "5997381"   "6043959"   "6104576"   "6108167"   "6169642"   "6195229"   "6295186"   "6304415"   "6305072").PN.	USPAT	2003/08/15 12:34
38	54	GMR and buffer and shield	USPAT; JPO; DERWENT	2003/08/15 14:38
39	1	(GMR and buffer and shield) and CMP	USPAT; JPO; DERWENT	2003/08/15 14:42

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### 1 Magnetoresistive properties of permalloy thin films and permalloy/C multilayers

Neamtu, J.; Volmer, M.; Coraci, A.;

Semiconductor Conference, 1998. CAS '98 Proceedings. 1998 International , Vol. 1 , 6-10 Oct. 1998

Page(s): 213 -216 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(504 KB\)\]](#) **IEEE CNF**

### 2 Characterization of electrodeposited magnetic multilayers

Jyoko, Y.; Kashiwabara, S.; Hayashi, Y.; Schwarzacher, W.;

Magnetics, IEEE Transactions on , Volume: 34 Issue: 6 , Nov. 1998

Page(s): 3910 -3912

[\[Abstract\]](#) [\[PDF Full-Text \(88 KB\)\]](#) **IEEE JNL**

### 3 Geometry effects on low frequency noise in giant magnetoresistance (GMR) sensors

Nor, A.F.M.; Hill, E.W.; Parker, M.R.;

Magnetics, IEEE Transactions on , Volume: 34 Issue: 4 , July 1998

Page(s): 1327 -1329

[\[Abstract\]](#) [\[PDF Full-Text \(268 KB\)\]](#) **IEEE JNL**

### 4 GMR in magnetic multilayers from a first principles band structure K<sub>1</sub> Greenwood approach

Rao, F.; Freeman, A.J.;

Magnetics, IEEE Transactions on , Volume: 34 Issue: 4 , July 1998  
Page(s): 930 -932

[\[Abstract\]](#) [\[PDF Full-Text \(328 KB\)\]](#) **IEEE JNL**

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**5 Highly field sensitive and thermally stable dc magnetron sputtered  $\text{Ni}_{81}\text{Fe}_{19}/\text{Cu}$  multilayers**

*Yiming Huai; Minshen Tan; Rottmayer, R.;*

Magnetics, IEEE Transactions on , Volume: 34 Issue: 4 , July 1998  
Page(s): 918 -920

[\[Abstract\]](#) [\[PDF Full-Text \(352 KB\)\]](#) **IEEE JNL**

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**6 Thermal wave interactions in magnetic materials**

*Carey, R.; Newman, D.M.; Wiggins, J.;*

Magnetics, IEEE Transactions on , Volume: 34 Issue: 4 , July 1998  
Page(s): 2033 -2035

[\[Abstract\]](#) [\[PDF Full-Text \(308 KB\)\]](#) **IEEE JNL**

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**7 Increased field sensitivity in Co/Cu multilayers with soft adjacent layer**

*Jardine, D.B.; Mathur, N.D.; Blamire, M.G.; Evetts, J.E.;*

Magnetics, IEEE Transactions on , Volume: 34 Issue: 4 , July 1998  
Page(s): 1297 -1299

[\[Abstract\]](#) [\[PDF Full-Text \(268 KB\)\]](#) **IEEE JNL**

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**8 GMR in DC magnetron sputtered  $\text{Ni}_{81}\text{Fe}_{19}/\text{Cu}$  multilayers**

*Mao, M.; Cerjan, C.; Gibbons, M.; Law, B.; Grabner, F.; Vernon, S.P.; Wall, M.;*

Magnetics, IEEE Transactions on , Volume: 34 Issue: 4 , July 1998  
Page(s): 915 -917

[\[Abstract\]](#) [\[PDF Full-Text \(392 KB\)\]](#) **IEEE JNL**

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**9 Influence of impurity gas in the sputtering atmosphere on the microstructure and the GMR in Co/Cu multilayers**

*Miura, S.; Takahashi, D.; Tsunoda, M.; Takahashi, M.;*

Magnetics, IEEE Transactions on , Volume: 34 Issue: 4 , July 1998  
Page(s): 936 -938

[\[Abstract\]](#) [\[PDF Full-Text \(320 KB\)\]](#) **IEEE JNL**

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**10 Correlation between evolving magnetic and morphological properties of magnetic multilayers**

*Doherty, S.A.; Zhu, J.-G.; Dugas, M.; Anderson, S.; Tersteeg, J.;*  
 Magnetism, IEEE Transactions on , Volume: 34 Issue: 4 , July 1998  
 Page(s): 840 -842

[\[Abstract\]](#) [\[PDF Full-Text \(428 KB\)\]](#) **IEEE JNL**

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**11 GMR-DMR read-element characterization and projections of head performance on high areal density rigid media**

*Trindade, I.G.; Kryder, M.H.; Freitas, P.P.; Smith, N.;*  
 Magnetism, IEEE Transactions on , Volume: 34 Issue: 4 , July 1998  
 Page(s): 1483 -1485

[\[Abstract\]](#) [\[PDF Full-Text \(404 KB\)\]](#) **IEEE JNL**

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**12 CPP giant magnetoresistance of NiFeCo/Cu/CoFe/Cu multilayers**

*Bussmann, K.; Cheng, S.F.; Prinz, G.A.; Hu, Y.; Gutmann, R.; Wang, D.; Beech, J.;*  
 Magnetism, IEEE Transactions on , Volume: 34 Issue: 4 , July 1998  
 Page(s): 924 -926

[\[Abstract\]](#) [\[PDF Full-Text \(360 KB\)\]](#) **IEEE JNL**

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**13 Magnetostatic coupling in patterned spin valve structures**

*Jyh-Shinn Yang; Lee, J.; Ching-Ray Chang;*  
 Magnetism, IEEE Transactions on , Volume: 34 Issue: 5 , Sept. 1998  
 Page(s): 2469 -2472

[\[Abstract\]](#) [\[PDF Full-Text \(320 KB\)\]](#) **IEEE JNL**

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**14 7th Joint MMM-Intermag Conference. Abstracts (Cat. No.98CH3627)**

MMM-Intermag Conference, 1998. Abstracts., The 7th Joint , 6-9 Jan. 1998

[\[Abstract\]](#) [\[PDF Full-Text \(380 KB\)\]](#) **IEEE CNF**

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**15 Structure Refinement Of NiFe/Cu Multilayers With Giant Magnetoresistance By Synchrotron Radiation Source**

*Jiang, H.W.; Luo, G.M.; Mai, Z.H.; Lai, W.Y.;*

MMM-Intermag Conference, 1998. Abstracts., The 7th Joint , 6-9 Jan. 1998  
Page(s): 127 -127

[\[Abstract\]](#) [\[PDF Full-Text \(72 KB\)\]](#) **IEEE CNF**

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Journal or Magazine = **JNL** Conference = **CNF** Standard = **STD**16 **Optimizing GMR spin valves: the outlook for improved properties**
*Egeloff, W.F., Jr.; Chen, P.J.; Powell, C.J.; Parks, D.; McMichael, R.D.; Judy, J.I. Martien, D.; Berkowitz, A.E.; Daughton, J.M.;*

Nonvolatile Memory Technology Conference, 1998. 1998 Proceedings. Seventh Biennial IEEE , 22-24 June 1998

Page(s): 34 -37

[\[Abstract\]](#) [\[PDF Full-Text \(352 KB\)\]](#) **IEEE CNF**
17 **A practical 256K GMR NV memory for high shock applications**
*Sinclair, R.A.; Mundon, S.A.; Aryal, S.C.; Sinclair, C.M.;*

Nonvolatile Memory Technology Conference, 1998. 1998 Proceedings. Seventh Biennial IEEE , 22-24 June 1998

Page(s): 38 -42

[\[Abstract\]](#) [\[PDF Full-Text \(660 KB\)\]](#) **IEEE CNF**
18 **High density pseudo spin valve magnetoresistive RAM**
*Tehrani, S.; Durlam, M.; DeHerrera, M.; Chen, E.; Calder, J.; Kerszykowski, G.;*

Nonvolatile Memory Technology Conference, 1998. 1998 Proceedings. Seventh Biennial IEEE , 22-24 June 1998

Page(s): 43 -46

[\[Abstract\]](#) [\[PDF Full-Text \(400 KB\)\]](#) **IEEE CNF**
19 **CPP Giant Magnetoresistance of NiFeCo/cu/ CoFe/cu Multilayers**
*Bussmarm, K.; Cheng, S.F.; Prinz, G.A.; Hu, Y.; Wang, D.; Beech, R.;*

MMM-Intermag Conference, 1998. Abstracts., The 7th Joint , 6-9 Jan. 1998  
Page(s): 300 -300

[\[Abstract\]](#) [\[PDF Full-Text \(100 KB\)\]](#) **IEEE CNF**

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20 **A self-biased spin valve sensor with a longitudinally pinned layer**

*Suzuki, T.; Matsutera, H.;*

Magnetics, IEEE Transactions on , Volume: 34 Issue: 4 , July 1998

Page(s): 1501 -1503

[\[Abstract\]](#) [\[PDF Full-Text \(272 KB\)\]](#) **IEEE JNL**

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21 **A new multilayered structure for multilevel magnetoresistive random access memory (MRAM) cell**

*Won-Cheol Jeong; Byung-Il Lee; Seung-Ki Joo;*

Magnetics, IEEE Transactions on , Volume: 34 Issue: 4 , July 1998

Page(s): 1069 -1071

[\[Abstract\]](#) [\[PDF Full-Text \(240 KB\)\]](#) **IEEE JNL**

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22 **Effect of microstructure on resistivity and GMR ratio in ion beam deposited spin valves**

*Bailey, W.E.; Guarisco, D.; Wang, S.X.;*

Magnetics, IEEE Transactions on , Volume: 34 Issue: 4 , July 1998

Page(s): 957 -959

[\[Abstract\]](#) [\[PDF Full-Text \(316 KB\)\]](#) **IEEE JNL**

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23 **Specular reflection in spin valves bounded by NiO layers**

*Swagten, H.J.M.; Strijkers, G.J.; Bitter, R.H.J.N.; de Jonge, W.J.M.; Kools, J.C.;*

Magnetics, IEEE Transactions on , Volume: 34 Issue: 4 , July 1998

Page(s): 948 -953

[\[Abstract\]](#) [\[PDF Full-Text \(656 KB\)\]](#) **IEEE JNL**

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24 **Process monitoring of spin-valve GMR deposition**

*Kools, J.C.S.; Paranjpe, L.; Schwartz, P.; Bubber, R.; Bergner, B.; Kula, W.; Rijssenbilt, T.G.S.M.;*

Magnetics, IEEE Transactions on , Volume: 34 Issue: 4 , July 1998

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[\[Abstract\]](#) [\[PDF Full-Text \(288 KB\)\]](#) **IEEE JNL**

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**25 Giant magnetoresistance of current-perpendicular exchange-biased valves of Co/Cu**

*Reilly, A.C.; Chiang, W.-C.; Park, W.; Hsu, S.Y.; Loloee, R.; Steenwyk, S.; Prat Jr.; Bass, J.;*

Magnetics, IEEE Transactions on , Volume: 34 Issue: 4 , July 1998

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[\[Abstract\]](#) [\[PDF Full-Text \(312 KB\)\]](#) **IEEE JNL**

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**26 Growth of giant magnetoresistive spin valves with strong exchange field**

*Choe, G.; Tsoukatos, A.; Gupta, S.;*

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**27 FMR and magnetization study of NiFe/Ag/CoNi trilayer film**

*Koymen, A.R.; Tagirov, L.R.; Gilmutdinov, R.T.; Topacli, C.; Birlikseven, C.; Du H.Z.; Aktas, B.;*

Magnetics, IEEE Transactions on , Volume: 34 Issue: 4 , July 1998

Page(s): 846 -848

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**28 Spin-valve structures with NiO pinning layers**

*Cowache, C.; Dieny, B.; Auffret, S.; Cartier, M.; Taylor, R.H.; O'Barr, R.; Yama S.Y.;*

Magnetics, IEEE Transactions on , Volume: 34 Issue: 4 , July 1998

Page(s): 843 -845

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**29 Enhancement of magnetoresistance characteristics in spin valve structures by two-step sputter deposition**

*Chang-Min Park; Kyung Ho Shin;*

Magnetics, IEEE Transactions on , Volume: 34 Issue: 4 , July 1998

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[\[Abstract\]](#) [\[PDF Full-Text \(308 KB\)\]](#) **IEEE JNL**

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30 **Micromagnetic analysis and current biasing of dual-stripe GMR and (GMR) sensors for high density recording**

*Freitas, P.P.; Cardoso, S.; Oliveira, N.J.;*

Magnetics, IEEE Transactions on , Volume: 34 Issue: 4 , July 1998

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**31 Comparison of computed amplitudes of magnetoresistance in spin-v structures with wafer probe measurements**
*Dieny, B.; Peireira, L.G.; Taylor, R.H.; Yamamoto, S.Y.;*

Magnetics, IEEE Transactions on , Volume: 34 Issue: 4 , July 1998

Page(s): 942 -944

[\[Abstract\]](#) [\[PDF Full-Text \(340 KB\)\]](#) **IEEE JNL**
**32 Characteristics of NiFe/CuNi multilayer GMR sensors for vertical GM heads**
*Mizuguchi, T.; Terada, S.; Miyauchi, T.; Matsuzono, A.;*

Magnetics, IEEE Transactions on , Volume: 34 Issue: 4 , July 1998

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[\[Abstract\]](#) [\[PDF Full-Text \(432 KB\)\]](#) **IEEE JNL**
**33 Activation energy of interdiffusion and interface structure for CoFe/ spin-valves**
*Saito, A.T.; Iwasaki, H.; Kamiguchi, Y.; Fuke, H.N.; Sahashi, M.;*

Magnetics, IEEE Transactions on , Volume: 34 Issue: 4 , July 1998

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**34 CoFe/IrMn spin-valves prepared on Cu islands**
*Umemoto, T.; Maeda, A.; Oikawa, S.; Yoshioka, K.; Takahashi, S.; Tanuma, T., Kume, M.; Shibata, K.;*

Magnetics, IEEE Transactions on , Volume: 34 Issue: 4 , July 1998  
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**35 Improvement of GMR characteristics in  $[\text{Ni}_{81}\text{Fe}_{19}/\text{Cu}]$  multilayers by interfacial modulation technique using Kr ions**

*Miyamoto, Y.; Watanabe, K.; Nishimura, K.; Nakagawa, S.; Naoe, M.;*

Magnetics, IEEE Transactions on , Volume: 34 Issue: 4 , July 1998  
Page(s): 921 -923

[\[Abstract\]](#) [\[PDF Full-Text \(328 KB\)\]](#) **IEEE JNL**

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**36 Time and temperature dependence of high thermal stability in  $\text{NiO}/\text{Co}/\text{Cu}/\text{Co}/\text{M}$  spin valves**

*McMichael, R.D.; Chen, P.J.; Egelhoff, W.F., Jr.;*

Magnetics, IEEE Transactions on , Volume: 34 Issue: 4 , July 1998  
Page(s): 897 -899

[\[Abstract\]](#) [\[PDF Full-Text \(280 KB\)\]](#) **IEEE JNL**

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**37 A study of voltage fluctuation, noise and magnetic instability in spin GMR recording heads**

*Wallash, A.;*

Magnetics, IEEE Transactions on , Volume: 34 Issue: 4 , July 1998  
Page(s): 1450 -1452

[\[Abstract\]](#) [\[PDF Full-Text \(276 KB\)\]](#) **IEEE JNL**

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**38 Effect of seed layer on the magnetoresistance characteristics in a-Cu based spin valves**

*Hae Seok Cho; Ueda, F.; Chunghong Hou; Fujiwara, H.;*

Magnetics, IEEE Transactions on , Volume: 34 Issue: 4 , July 1998  
Page(s): 1414 -1416

[\[Abstract\]](#) [\[PDF Full-Text \(336 KB\)\]](#) **IEEE JNL**

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**39 Thermal stability of CoFe, Co and NiFe/Co spin valves**

*Zeltser, A.M.; Pentek, K.; Menyhard, M.; Sulyok, A.;*

Magnetics, IEEE Transactions on , Volume: 34 Issue: 4 , July 1998

Page(s): 1417 -1419

[\[Abstract\]](#) [\[PDF Full-Text \(316 KB\)\]](#) **IEEE JNL**

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40 **Spin-valves with bias compensation layer**

*Kanai, H.; Yamada, K.; Kanamine, M.; Toda, J.;*

Magnetics, IEEE Transactions on , Volume: 34 Issue: 4 , July 1998

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[\[Abstract\]](#) [\[PDF Full-Text \(344 KB\)\]](#) **IEEE JNL**

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41 **New antiferromagnetic RuRhMn film and its application for spin-valv**

*Araki, S.; Omata, E.; Sano, M.; Noguchi, K.; Morita, H.; Matsuzaki, M.;*

Magnetics, IEEE Transactions on , Volume: 34 Issue: 2 , March 1998

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